

Mountain Valley Pipeline, LLC

v.

Easements to Construct, etc., et al.

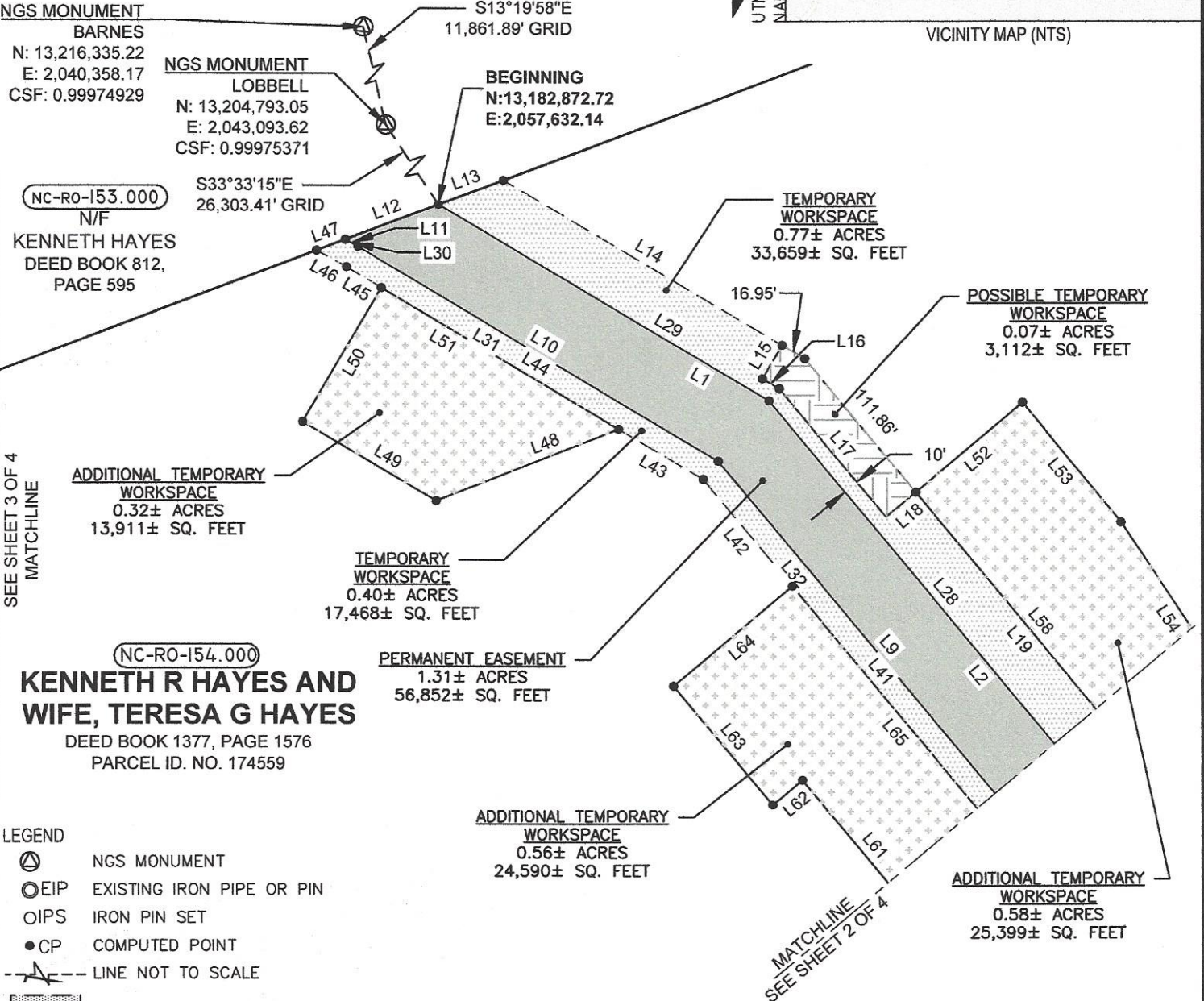
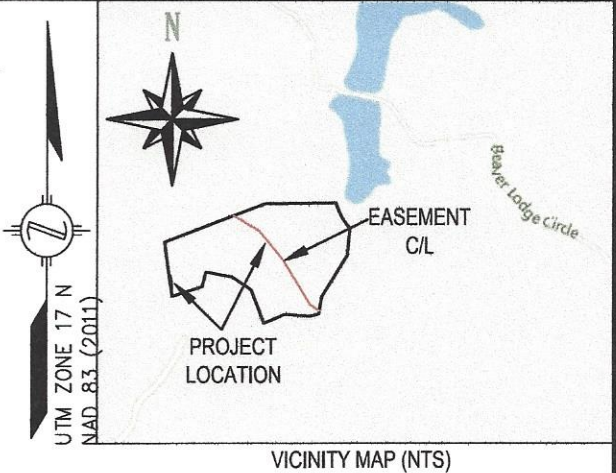
Exhibit 77 to Complaint

Map of MVP Parcel No. NC-RO-154.000

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1377, PAGE 1576
5. PARCEL ID: 174559
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO THE UTM ZONE 17 N NAD 83 (2011).
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

KENNETH R HAYES AND WIFE TERESA G HAYES		sq. ft.	acres
AREA OF PERMANENT EASEMENT:		56,852±	1.31 ACRES
AREA OF TEMPORARY WORKSPACE:		51,127±	1.17 ACRES
AREA OF ADDITIONAL TEMPORARY WORKSPACE:		73,822±	1.69 ACRES
AREA OF ACCESS ROAD:		4,544±	0.10 ACRES
AREA OF POSSIBLE TEMPORARY WORKSPACE:		4,353±	0.10 ACRES

CENTERLINE OF EASEMENT: 1,137± 68.91± feet rods
CENTERLINE OF ACCESS ROAD: 199± 12.03±

SEE SHEET 4 OF 4 FOR LINE TABLES

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1377, page 1576); that the ratio of precision as calculated is 1:10,000±; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 3rd day of June, 2020

THOMAS WARNER KIMMEL, PLS L 3674
LAND OWNER INITIALS: _____
DATE: _____
TRC ENGINEERS, INC
2200 LIBERTY AVENUE,
SUITE 100
PITTSBURGH, PA 15222
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591

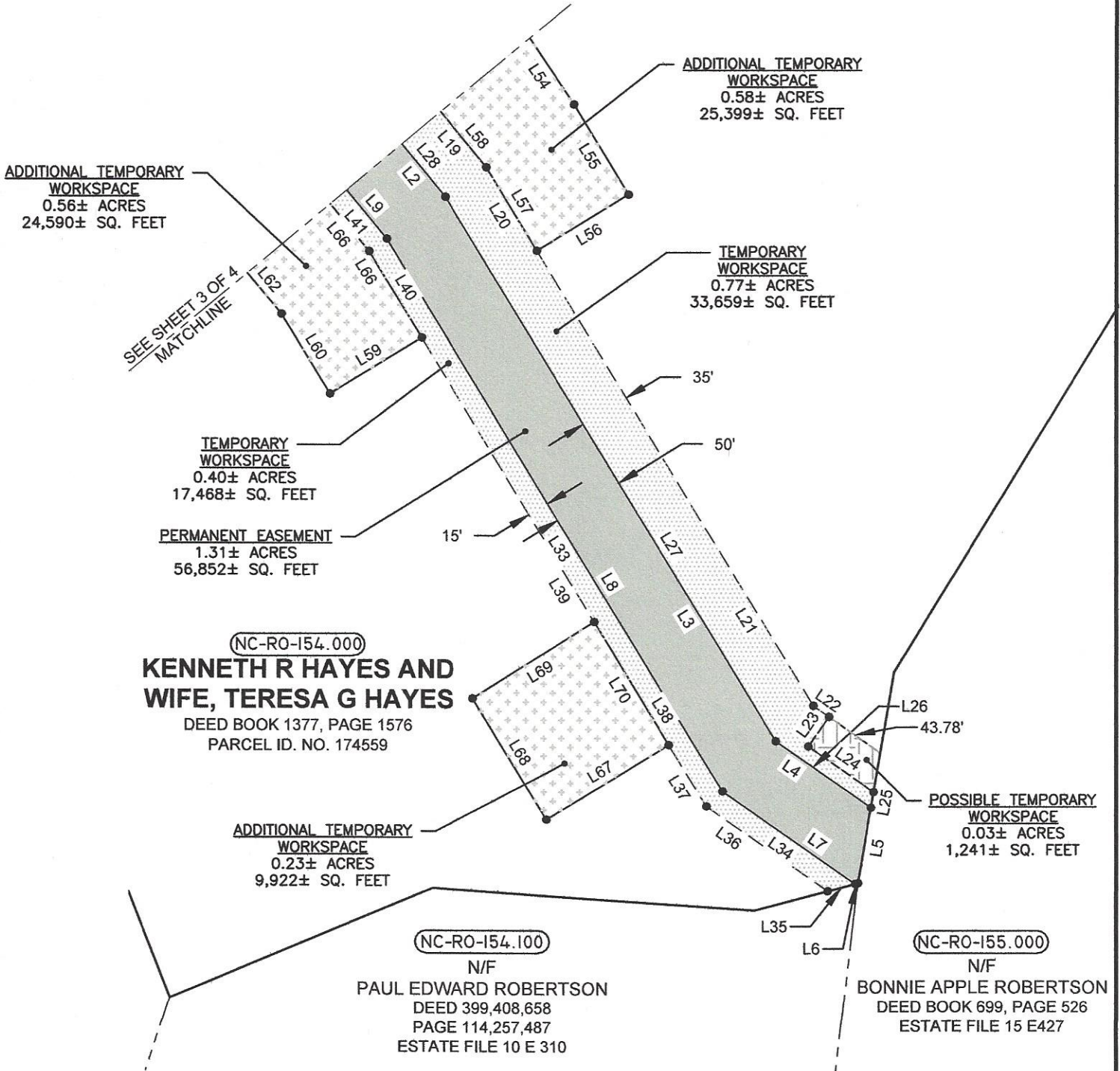
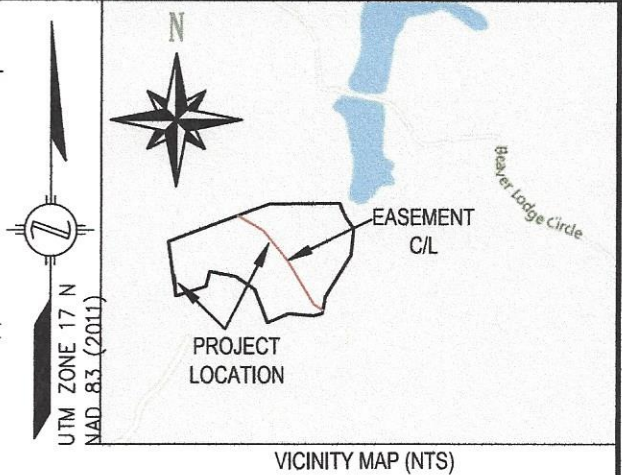


EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF WILLIAMSBURG ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF KENNETH R HAYES AND WIFE TERESA G HAYES NC-RO-154.000 DEED BOOK 1377, PAGE 1576			
Drawn By: AHP	Chk'd By: DD	App'd By: TWK	Scale: 1"=100'
Drawn Date: 6/3/20	DD	TWK	Sheet: 1 OF 4
GRAPHIC SCALE IN FEET 100 50 0 100			
REVISIONS			
A	1/22/2019	ISSUE FOR REVIEW	
1	4/24/2020	MSF	GENERAL REVISIONS
2	6/3/2020	DD	UPDATED ADJOINERS
No.	Date	Rev By	Description
			Checked

NOTES

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EXHIBIT A



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- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

LAND OWNER INITIALS: _____
DATE: _____

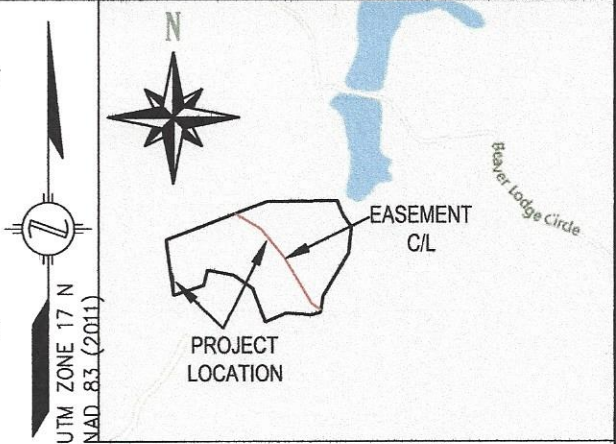
SEE SHEET 4 OF 4 FOR LINE TABLES

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF WILLIAMSBURG ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF KENNETH R HAYES AND WIFE TERESA G HAYES NC-RO-154.000 DEED BOOK 1377, PAGE 1576			
NC-RO-154.000			
Drawn By: AHP	Chk'd By: DD	App'd By: TWK	Scale: 1"=100'
Drawn Date: 6/3/20			MVP Proj. No.
GRAPHIC SCALE IN FEET			
REVISIONS			
A	1/22/2019		ISSUE FOR REVIEW
1	4/24/2020	MSF	GENERAL REVISIONS
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EXHIBIT A



VICINITY MAP (NTS)

NC-RO-153.000
N/F
KENNETH HAYES
DEED BOOK 812, PAGE 595

NC-RO-154.000
**KENNETH R HAYES AND
WIFE, TERESA G HAYES**
DEED BOOK 1377, PAGE 1576
PARCEL ID. NO. 174559

CHECK
COORDINATES
N:13,182,365.58
E:2,057,042.60

TEMPORARY
ACCESS ROAD
TA-RO-130
0.10± ACRES
4,544± SQ. FEET

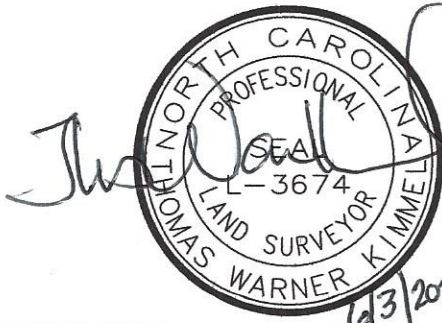
CHECK
COORDINATES
N:13,182,174.19
E:2,057,069.62

NC-RO-149.300
N/F
DAVID TRAVIS
DEED BOOK 1255, PAGE 2049

MATCHLINE
SEE SHEET 1 OF 4

LEGEND

- NGS MONUMENT
- EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
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- POSSIBLE TEMPORARY WORKSPACE



LAND
OWNER
INITIALS: _____
DATE: _____

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

SEE SHEET 4 OF 4 FOR LINE TABLES

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF WILLIAMSBURG ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF KENNETH R HAYES AND WIFE TERESA G HAYES NC-RO-154.000 DEED BOOK 1377, PAGE 1576			
NC-RO-154.000			
Drawn By: AHP	Chk'd By: DD	App'd By: TWK	Scale: 1"=100'
Drawn Date: 6/3/20			Sheet: 3 OF 4
GRAPHIC SCALE IN FEET 100 50 0 100			
REVISIONS			
A	1/22/2019		ISSUE FOR REVIEW
1	4/24/2020	MSF	GENERAL REVISIONS
2	6/3/2020	DD	UPDATED ADJOINERS
No.	Date	Rev By	Description
			Checked

EXHIBIT A

PERMANENT EASEMENT		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S59°26'19"E	248.22'
L2	S39°46'41"E	335.80'
L3	S31°26'19"E	442.19'
L4	S54°59'05"E	80.85'
L5	S09°49'21"W	53.59'
L6	S75°26'22"W	1.99'
L7	N54°59'05"W	112.79'
L8	N31°26'19"W	448.97'
L9	N39°46'41"W	323.49'
L10	N59°26'19"W	270.67'
L11	N61°19'24"W	9.35'
L12	N69°22'03"E	64.56'

TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L13	N69°22'03"E	44.91'
L14	S59°26'19"E	209.19'
L15	S30°33'41"W	25.00'
L16	S59°26'20"E	12.62'
L17	S39°46'41"E	107.53'
L18	N50°13'19"E	25.00'
L19	S39°46'41"E	232.56'
L20	S31°26'19"E	67.44'
L21	S31°26'19"E	370.01'
L22	S54°59'06"E	13.31'
L23	S35°00'57"W	25.00'
L24	S54°59'05"E	55.54'
L25	S09°49'21"W	11.05'
L26	N54°59'05"W	80.85'
L27	N31°26'19"W	442.19'
L28	N39°46'41"W	335.80'
L29	N59°26'19"W	248.22'
L30	S61°19'24"E	9.35'
L31	S59°26'19"E	270.67'
L32	S39°46'41"E	323.49'
L33	S31°26'19"E	448.97'
L34	S54°59'05"E	112.79'
L35	S75°26'22"W	19.70'
L36	N54°59'04"W	103.14'
L37	N31°26'19"W	41.23'
L38	N31°26'19"W	99.78'
L39	N31°26'19"W	239.68'
L40	N31°26'19"W	70.31'
L41	N39°46'40"W	229.69'
L42	N39°46'41"W	90.11'
L43	N59°26'19"W	63.26'
L44	N59°26'19"W	178.22'
L45	N59°26'19"W	26.35'
L46	N61°19'24"W	22.00'
L47	N69°22'03"E	19.78'

ADDITIONAL TEMPORARY WORKSPACE		
LINE TABLE		
LINE	BEARING	DISTANCE
L48	S68°35'37"W	126.96'
L49	N59°26'19"W	100.00'
L50	N30°33'42"E	100.00'
L51	S59°26'19"E	178.22'
L52	N50°09'47"E	90.09'
L53	S39°27'27"E	100.17'
L54	S33°45'50"E	138.72'
L55	S31°26'19"E	72.91'
L56	S58°33'41"W	75.00'
L57	N31°26'19"W	67.44'
L58	N39°46'41"W	232.56'
L59	S58°33'41"W	75.00'
L60	N31°26'19"W	64.84'
L61	N39°46'41"W	124.22'
L62	S50°13'21"W	25.00'
L63	N39°46'41"W	100.00'
L64	N50°13'19"E	100.00'
L65	S39°46'40"E	229.69'
L66	S31°26'19"E	70.31'
L67	S58°33'41"W	100.00'
L68	N31°26'19"W	98.67'
L69	N57°55'27"E	100.01'
L70	S31°26'19"E	99.78'

CENTERLINE ACCESS ROAD		
LINE TABLE		
LINE	BEARING	DISTANCE
L71	S43°23'25"E	17.34'
L72	S23°03'45"E	25.83'
L73	S06°40'17"E	48.08'
L74	S00°43'27"E	42.96'
L75	S01°00'45"W	64.32'




LAND
OWNER
INITIALS: _____
DATE: _____

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

SEE SHEET 1-3 OF 4 FOR GRAPHICS AND LABELS

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF WILLIAMSBURG
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
KENNETH R HAYES AND WIFE, TERESA G HAYES
NC-RO-154.000
DEED BOOK 1377, PAGE 1576

NC-RO-154.000

Drawn By: AHP

Chk'd By: DD

App'd By: TWK

TRC Proj. No. 300423

Scale: NTS

Drawn Date: 6/3/20

Sheet: 4 OF 4

MVP Proj. No.

REVISIONS

A	1/22/2019		ISSUE FOR REVIEW	
1	4/24/2020	MSF	GENERAL REVISIONS	TWK
No.	Date	Rev By	Description	Checked